

SEQUENCE LISTING

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Wong, James F.
Lee, Jian-Ming

<120> SCORPION TOXINS

<130> BB1367 US NA

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<150> 60/140,227

<151> 1999-06-22

<160> 28

<170> Microsoft Office 97

<210> 1

<211> 177

<212> DNA

<213> Hottentotta judaica

<400> 1

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<210> 2

<211> 58

<212> PRT

<213> Hottentotta judaica

<400> 2

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1 5 10 15
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Ile Ile Ser Leu Ser Asn Phe Lys Val Glu Ala Ala Gln Cys Tyr Ser
20 25 30
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Ser Asp Cys Arg Val Lys Cys Ala Ala Met Gly Phe Asn Ser Gly Lys
35 40 45
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Cys Ile Asn Ser Lys Cys Lys Cys Tyr Lys
50 55
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<210> 3

<211> 186

<212> DNA

<213> Hottentotta judaica

<400> 3

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tgctatgata aatacggcac aactaaaact aaatgcatca acgatcgggt caactgttat 180
ccgtaa 186
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<210> 4

<211> 61

<212> PRT

<213> Hottentotta judaica

<400> 4
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 1 5 10 15
 Val Ile Ser Ser His Ala Gln Tyr Glu Leu Asp Val Thr Cys Met Gly
 20 25 30
 Gly Ala Asp Asn Cys Val Lys Pro Cys Tyr Asp Lys Tyr Gly Thr Thr
 35 40 45
 Lys Thr Lys Cys Ile Asn Asp Arg Cys Asn Cys Tyr Pro
 50 55 60

<210> 5
 <211> 180
 <212> DNA
 <213> Hottentotta judaica

<400> 5
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 aattgccaa tagaaacaaa tgtgaaatgt acaggtggct catgtgcttc aacatgtaaa 120
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<210> 6
 <211> 59
 <212> PRT
 <213> Hottentotta judaica

<400> 6
 Met Lys Phe Ser Ser Ile Ile Leu Leu Thr Leu Leu Ile Cys Ser Met
 1 5 10 15
 Thr Ile Cys Ile Asn Cys Gln Val Glu Thr Asn Val Lys Cys Thr Gly
 20 25 30
 Gly Ser Cys Ala Ser Thr Cys Lys Arg Val Ile Gly Val Ala Ala Gly
 35 40 45
 Lys Cys Ile Asn Gly Arg Cys Val Cys Tyr Pro
 50 55

<210> 7
 <211> 171
 <212> DNA
 <213> Hottentotta judaica

<400> 7
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 atatcggatc ctggagtgga agctgttgat tgtgaagaat gcccttttca ttgcgcaggo 120
 aaaaacgcca tacctacctg cgatgatggc gagtgtaact gcaacgtatg a 171

<210> 8
 <211> 56
 <212> PRT
 <213> Hottentotta judaica

<400> 8
 Met Ser Arg Leu Phe Thr Leu Val Leu Ile Val Leu Ala Met Asn Val
 1 5 10 15
 Met Met Ala Ile Ile Ser Asp Pro Gly Val Glu Ala Val Asp Cys Glu
 20 25 30
 Glu Cys Pro Phe His Cys Ala Gly Lys Asn Ala Ile Pro Thr Cys Asp
 35 40 45

Asp Gly Glu Cys Asn Cys Asn Val
50 55

<210> 9
<211> 180
<212> DNA
<213> Hottentotta judaica

<400> 9
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tcccagcaaa atgcccgagc aaaatgtgaa aatgacaaat gtgtatgcga acctaaatga 180

<210> 10
<211> 59
<212> PRT
<213> Hottentotta judaica

<400> 10
Met Lys Met Ser Arg Leu Tyr Ala Ile Ile Leu Ile Val Leu Val Met
1 5 10 15

Asn Val Ile Met Thr Ile Met Pro Asp Ser Lys Val Glu Ala Val Gly
20 25 30

Cys Glu Asp Cys Pro Glu His Cys Ser Gln Gln Asn Ala Arg Ala Lys
35 40 45

Cys Glu Asn Asp Lys Cys Val Cys Glu Pro Lys
50 55

<210> 11
<211> 213
<212> DNA
<213> Hottentotta judaica

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aatcttagaa ggtgtcagtt aatttgtaga gaaagtggat tattaggaaa gtgcattgga 180
gatagatgcg aatgtgttcc acatggcaaa taa 213

<210> 12
<211> 70
<212> PRT
<213> Hottentotta judaica

<400> 12
Met Ile Lys Glu Leu Leu Ser Thr Glu Met Tyr Asn Tyr Tyr Lys Phe
1 5 10 15

Val Leu Ile Met Val Val Phe Phe Ala Ala Thr Ile Ile Phe Ser Asp
20 25 30

Ile Asn Val Glu Gly Ala Phe Cys Asn Leu Arg Arg Cys Gln Leu Ile
35 40 45

Cys Arg Glu Ser Gly Leu Leu Gly Lys Cys Ile Gly Asp Arg Cys Glu
50 55 60

Cys Val Pro His Gly Lys
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<210> 13
<211> 186

<212> DNA
 <213> Hottentotta judaica

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 aagaaatgtt gcggaaatag gtggggaaaa tgtgctggtt atcagtgcgt ctgtccaatg 180
 aagtaa 186

<210> 14
 <211> 61
 <212> PRT
 <213> Hottentotta judaica

<400> 14
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 Met Ile Ala Thr His Ser Glu Ala Arg Cys Pro Asn Cys Phe Thr Thr
 20 25 30
 Asn Pro Asn Ala Glu Ala Asp Cys Lys Lys Cys Cys Gly Asn Arg Trp
 35 40 45
 Gly Lys Cys Ala Gly Tyr Gln Cys Val Cys Pro Met Lys
 50 55 60

<210> 15
 <211> 176
 <212> DNA
 <213> Hottentotta judaica

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 gaagctggac ttatagacgt aagatgtagt gcctctogtg aatggtggga agcttgcaga 120
 aaagtaacag gatcaggaca aggaaagtgc cagaataacc aatgtcgttg ttatta 176

<210> 16
 <211> 58
 <212> PRT
 <213> Hottentotta judaica

<400> 16
 Met Lys Ile Leu Ser Val Leu Leu Ile Ala Leu Ile Ile Cys Ser Leu
 1 5 10 15
 Gly Val Cys Ile Glu Ala Gly Leu Ile Asp Val Arg Cys Ser Ala Ser
 20 25 30
 Arg Glu Cys Trp Glu Ala Cys Arg Lys Val Thr Gly Ser Gly Gln Gly
 35 40 45
 Lys Cys Gln Asn Asn Gln Cys Arg Cys Tyr
 50 55

<210> 17
 <211> 177
 <212> DNA
 <213> Hottentotta judaica

<400> 17
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 gaagctgac ttatagacgt aaaatgtatt tcatctcaag aatggtggat tgcttgtaaa 120
 aaagtaactg gacggtttca aggaaaatgc cagaataaac aatgtcgtg ttattaa 177

<210> 18
 <211> 58
 <212> PRT
 <213> Hottentotta judaica

<400> 18
 Met Lys Ile Leu Ser Val Leu Leu Ile Ala Leu Ile Ile Cys Ser Ile
 1 5 10 15
 Ser Ile Tyr Ser Glu Ala Asp Leu Ile Asp Val Lys Cys Ile Ser Ser
 20 25 30
 Gln Glu Cys Trp Ile Ala Cys Lys Lys Val Thr Gly Arg Phe Gln Gly
 35 40 45
 Lys Cys Gln Asn Lys Gln Cys Arg Cys Tyr
 50 55

<210> 19
 <211> 174
 <212> DNA
 <213> Hottentotta judaica

<220>
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 <222> (88)

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 ttgtgtgtgg ccagaggaaa gtgcataaat aagcaatgcc gttgttattc gtaa 174

<210> 20
 <211> 57
 <212> PRT
 <213> Hottentotta judaica

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 <222> (30)

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 20 25 30
 Cys Trp Pro Ile Cys Lys Glu Arg Phe Gly Val Ala Arg Gly Lys Cys
 35 40 45
 Ile Asn Lys Gln Cys Arg Cys Tyr Ser
 50 55

<210> 21
 <211> 62
 <212> PRT
 <213> Centruroides noxius

<400> 21
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 1 5 10 15

Thr Met His Thr Phe Ala Asn Trp Asn Thr Glu Ala Ala Val Cys Val
 20 25 30
 Tyr Arg Thr Cys Asp Lys Asp Cys Lys Arg Arg Gly Tyr Arg Ser Gly
 35 40 45
 Lys Cys Ile Asn Asn Ala Cys Lys Cys Tyr Pro Tyr Gly Lys
 50 55 60

<210> 22
 <211> 59
 <212> PRT
 <213> Androctonus australis

<400> 22
 Met Lys Val Phe Ser Ala Val Leu Ile Ile Leu Phe Val Cys Ser Met
 1 5 10 15

Ile Ile Gly Ile Asn Ala Val Arg Ile Pro Val Ser Cys Lys His Ser
 20 25 30

Gly Gln Cys Leu Lys Pro Cys Lys Asp Ala Gly Met Arg Phe Gly Lys
 35 40 45

Cys Met Asn Gly Lys Cys Asp Cys Thr Pro Lys
 50 55

<210> 23
 <211> 28
 <212> PRT
 <213> Leiurus quinquestriatus

<400> 23
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 1 5 10 15

Pro Thr Cys Asp Asn Gly Val Cys Asn Cys Asn Val
 20 25

<210> 24
 <211> 29
 <212> PRT
 <213> Leiurus quinquestriatus

<400> 24
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 1 5 10 15

Ala Lys Cys Asp Asn Asp Lys Cys Val Cys Glu Pro Lys
 20 25

<210> 25
 <211> 31
 <212> PRT
 <213> Leiurus quinquestriatus

<400> 25
 Ala Phe Cys Asn Leu Arg Met Cys Gln Leu Ser Cys Arg Ser Leu Gly
 1 5 10 15

Leu Leu Gly Lys Cys Ile Gly Asp Lys Cys Glu Cys Val Lys His
 20 25 30

<210> 26
 <211> 35

<212> PRT
<213> Androctonus mauretanicus

<400> 26
Cys Gly Pro Cys Phe Thr Thr Asp Pro Tyr Thr Glu Ser Lys Cys Ala
1 5 10 15
Thr Cys Cys Gly Gly Arg Gly Lys Cys Val Gly Pro Gln Cys Leu Cys
20 25 30
Asn Arg Ile
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<210> 27
<211> 36
<212> PRT
<213> Leiurus quinquestriatus

<400> 27
Gly Leu Ile Asp Val Arg Cys Tyr Asp Ser Arg Gln Cys Trp Ile Ala
1 5 10 15
Cys Lys Lys Val Thr Gly Ser Thr Gln Gly Lys Cys Gln Asn Lys Gln
20 25 30
Cys Arg Cys Tyr
35

<210> 28
<211> 37
<212> PRT
<213> Buthus martensii

<400> 28
Xaa Phe Thr Asp Val Lys Cys Thr Gly Ser Lys Gln Cys Trp Pro Val
1 5 10 15
Cys Lys Gln Met Phe Gly Lys Pro Asn Gly Lys Cys Met Asn Gly Lys
20 25 30
Cys Arg Cys Tyr Ser
35